Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (Cancelled)
- 2. (Cancelled)
- 3. (Cancelled)
 - 4. (Cancelled)
 - 5. (Cancelled)
 - 6. (Cancelled)
 - 7. (Cancelled)
 - 8. (Cancelled)
 - 9. (Cancelled)
 - 10. (Cancelled)
 - 11. (Cancelled)
 - 12. (Cancelled)
- 13. (Cancelled)
- 14. (Cancelled)
- 15. (Cancelled)
- 16. (Cancelled)
- 17.

(Cancelled)

- 18. (Cancelled)
- 19. (Cancelled)
- 20. (Cancelled)
- 21. (Cancelled)
- 22. (Cancelled)
- 23. (Cancelled)
- 24. (Cancelled)
- 25. (Cancelled)
- 26. (Cancelled)

- 27. (Cancelled)
- 28. (Cancelled)
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- 34. (Cancelled)
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- 44. (Cancelled)
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- 46. (Cancelled)
- 47. (Cancelled)
- 48. (Cancelled)
- 49. (Cancelled)
- 50. (Cancelled)
- 51. (Cancelled)
- 52. (Cancelled)
- 53. (Cancelled)
- 54. (Cancelled)
- 55. (New) A device for locally contacting aortic valve leaflets with a demineralization fluid, the device comprising

a central shaft;

three distinct fluid contact elements arranged around the central shaft, each fluid contacting element comprising a porous affixed to an impermeable backing, the distal ends of the fluid contacting elements being configured to fit snugly inside of the aortic sinus;

fluid delivery elements for delivering a demineralization fluid from a source to the porous applicators;

a shunt positioned within the central shaft and concentrically mounted therein for providing blood flow from the ventricle;

an aspiration lumen formed from a gap between the shunt and the central shaft; and

a valve occluder mounted to the central shaft, the valve occlude being configured to sit flush with the ventricular side of the aortic valve leaflets.